

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A system for control and supervision of residential control in a broadband network (10), ~~characterized in that it comprises~~ comprising a plurality of at least one of the following features provided by hardware and software broadband network dedicated units including at least a protocol server, and a membership policy server means (M2, 22, 24, 26, 28, 30); wherein in order to provide service differentiation for customers, said plurality of units is configured to:

~~port control a port~~ by feeding a protocol server (30) for auto-configuration of client network parameters with information from a the membership policy server, (28) said policy server providing that each network customer address can be connected to a unique name of a port for one customer inside the network;

assure a class of service assurance for specific types of customer equipment (14) while denying attempts to lease additional customer addresses through said protocol server, (30) said protocol server ~~which keeps~~ keeping a record of all assigned addresses to said policy server (28);

provide forced direction for network login procedure by redirecting a customers browser to a predetermined login procedure when a network connected equipment is turned on, thus providing a controlled way of identifying each customer before using other services; or and

provide abuse and anti-spoof protection by adjusting boarder border gateway control routing tables in real time in with respect of to said protocol for auto-configuration;
~~thereby providing services differentiation for customers.~~

2. (Currently amended) A system according to claim 1, ~~characterized in that it announces~~ wherein said plurality of units is further configured to announce helper addresses as dynamic routes providing instant fail-over if a daemon fails by withdrawing routes from a network service providers boarder gateway control table, ~~whereby~~ wherein a lower prioritized daemon immediately takes control, ~~and~~ which provides that it is impossible for a customer to use an address without leasing it from said protocol server (30).

3. (Currently amended) A system according to claim 1, ~~characterized in that it~~ adjusts wherein said plurality of units is further configured to adjust ~~border border~~ gateway protocol routes to customer devices/equipment (14) in real time according to protocol for auto-configuration of client network parameters, thus enhancing load balancing in network (10) fiber rings.

4. (Currently amended) A system according to claim 1, ~~characterized in that it~~ comprises wherein said plurality of units is further configured to provide real time traffic analyzing detecting unauthorized servers run by a customer and a software which provides network address translation.

5. (Currently amended) A system according to claim 1, ~~characterized in that~~ wherein said port control controls activation and deactivation of residential access ports.

6. (Currently amended) A system according to claim 1, ~~characterized in that~~ wherein said port control ~~provides the assigning of~~ assigns a static network address to a specific port and MAC address.

7. (Currently amended) A system according to claim 1, ~~characterized in that~~ wherein said forced ~~redirection~~ direction provides forced network portal logins.

8. (Currently amended) A system according to claim 1, ~~characterized in that it~~ provides wherein said plurality of units is further configured to provide traffic mediation which enables the system to aggregate Cisco® NetFlow (24) information based on a ~~residential~~ residential port.

9. (Currently amended) A system according to claim 1, ~~characterized in that it~~ provides wherein said plurality of units is further configured to provide port snooping through display of port information or port link states.

10. (Currently amended) A system according to claim 1, ~~characterized in that it~~ provides wherein said plurality of units is further configured to provide network address to

residential port logging, which enables to find out who a specific network address was leased to at a given time, ~~which provides~~ so as to administer abuse ~~administration~~ in a broadband network (10).

11. (New) A system for control and supervision of residential control in a broadband network comprising a plurality of hardware and software broadband network dedicated units including at least a protocol server, and a membership policy server, wherein in order to provide service differentiation for customers, said plurality of units is configured to provide real time traffic analyzing detecting unauthorized servers run by a customer and a software which provides network address translation, said plurality of units being further configured to at least:

control a port by feeding a protocol server for auto-configuration of client network parameters with information from the membership policy server, said policy server providing that each network customer address can be connected to a unique name of a port for one customer inside the network;

assure a class of service for specific types of customer equipment while denying attempts to lease additional customer addresses through said protocol server, said protocol server keeping a record of all assigned addresses to said policy server;

provide forced direction for network login procedure by redirecting a customers browser to a predetermined login procedure when a network connected equipment is turned on, thus providing a controlled way of identifying each customer before using other services; or

provide abuse and anti-spoof protection by adjusting border gateway control routing tables in real time with respect to said protocol for auto-configuration.

12. (New) A system according to claim 11, wherein said plurality of units is further configured to announce helper addresses as dynamic routes providing instant fail-over if a daemon fails by withdrawing routes from a network service providers boarder gateway control table, wherein a lower prioritized daemon immediately takes control, which provides that it is impossible for a customer to use an address without leasing it from said protocol server.

13. (New) A system according to claim 11, wherein said plurality of units is further configured to adjust border gateway protocol routes to customer devices/equipment in real time according to protocol for auto-configuration of client network parameters, thus enhancing load balancing in network fiber rings.

14. (New) A system according to claim 11, wherein said port control controls activation and deactivation of residential access ports.

15. (New) A system according to claim 11, wherein said port control assigns a static network address to a specific port and MAC address.

16. (New) A system according to claim 11, wherein said forced direction provides forced network portal logins.

17. (New) A system according to claim 11, wherein said plurality of units is further configured to provide traffic mediation which enables the system to aggregate Cisco® NetFlow information based on a residential port.

18. (New) A system according to claim 11, wherein said plurality of units is further configured to provide port snooping through display of port information or port link states.

19. (New) A system according to claim 11, wherein said plurality of units is further configured to provide network address to residential port logging, which enables to find out who a specific network address was leased to at a given time so as to administer abuse in a broadband network.